Index for Volume 86 of Plant Disease

AUTHOR AND SUBJECT INDEX. Page numbers of errata are in italic. N indicates disease note. Publication no. D-2002-1025-01O

Abawi, G. S., 840
Abayo, G. O., 65
Abbas, H. K., 1179N
Abbasi, P. A., 156, 1232
Abdul-Baki, A. A., 955
Abies spp., white fir dwarf mistletoe, on mountain hemlock, 1274N
Abou-Jawdah, Y., 477
Abouzid, A. M., 1109
Accotto, G. P., 73N, 696N
Acer negundo, canker rot, in Europe, 922N
Aceria spp.
—*A. cajani, Pigeon pea sterility mosaic virus* vector, 1297
—*A. tosichella: High Plains virus* transmitted by, in wheat, 138; *Wheat streak mosaic virus* vector, genetic resistance, 423
Acibenzolar-*S*-methyl, Phytophthora root and crown rot, 292
Acidovorax avenae
—on *Citrullus* sp.,resistance, 61
—on gramma, in Australia, 1406N
—on pearl millet, in Georgia, 326N
—on watermelon, cover photo, April; in Illinois, 443N
Actinidia deliciosa, wood discoloration and decay, in Greece, 1176N
Adams, G. C., 442N
Adkins, S., 1310
Aegerter, B. J., 692N, 1363
Aesculus sp., bleeding canker, in Turkey, 697N
Agapanthus praecox, Xanthmonas axonopodis, in Florida, 562N
Agosteo, G. E., 71N
Agostis palustris, nematode parasites, factors, 764
Agrobacterium vitis, on grape, strain in Anatolia, 162, *690*
Agrostis stolonifera, dead spot:
—distribution and cultivars, 1253
—reactivation and growth, fungus factors, 1290
Aguín, O., 813N
Aiyabei, J., 509
Akimoto, A. K., 72N
Albrecht, K. A., 695N
Albugo spp.
—*A. occidenalis* on spinach: surfactant effect on disease,791; temperature and moisture effect, 753
—*A. tragopogonis*, on sunflower, first report in North America, 559N
Al-Dahmani, J., 156
Aletà, N., 583
Alfalfa
—*Aphanomyces euteiches*, race 2 in Illinois, 560N
—brown root rot, detection using PCR-based SCAR markers, 928
—foliar diseases, yield loss in four states, 269
—Verticillium wilt, irrigation and cultivar effect, 588
—violet root rot, in Iran,693N
Alfalfa mosaic virus
—on borage, in Spain, 698N
—on clover, Wisconsin, 695N
—on *Cynoglossum officinale*, new host, 444N
—on *Physostegia virginiana*, 72N
Ali, S., 1050N
Allamana spp., Botrytis blight, in Italy, 1175N
Allen, C., 987
Alminaite, A., 443N, 1177N
Almond, witches'-broom:
—cover photo, May
—Lebanon epidemic, phylogeny, 477
Alternaria spp.
—*A. dauci*, on carrot, survival in crop residue, 1115
—*A. longipes*, on carrot, leaf blight, 186N
—*A. tenuissima*, on *Amaranthus*, infection and endophytes, 1199
Amaranthus hybridus, Alternaria leaf spot, colonization and endophytes, 1199
American hop latent virus, on hops, 661
Amin, I., 444N
Anacardium occidentale, black branch dieback, in Brazil, 558N
Anderson, J. D., 356, 955
Anderson, N. A., 462
Anderson, T. R., 330N, 971
Andicoberry, S., 563N
Andino, V., 1050N
Andrews, P. K., 669
Anjos, J. R. N., 72N
Ann, P.-J., 820
Annibali, S., 897
Anselmi, N., 328N
Aparna, G. S., 920N
Aphanomyces spp.
—*A. cochlioides*, on sugar beet: cover photo, March; spatial distribution in field, 547
—*A. euteiches:* on alfalfa, race 2 in Illinois, 560N; on pea, *Fusarium* relation, 411
Aphis glycines
—*Soybean mosaic virus* vector, transmission efficiency, 1260
—soybean virus vector, field isolates, 1219
Apioplagiostoma populi, on *Populus*, etiology, 462
Apium graveolens, root rot, *Pythium* cause, 441N
Apple
—*Botryosphaeria* spp. on, in Bolivia, 328N
—fire blight: acibenzolar-*S*-methyl for management, 785; biocontrol agents, 639
—gray mold and blue mold, yeasts antagonist to, 848
—postharvest rot, *Phytophthora syringae* cause, 693N
—*Pythium* on roots of, metalaxyl sensitivity, 669
—scab lesions, cover photo, July
—sooty blotch and flyspeck, postharvest, chemical treatment, 1325
Apple mosaic virus, on hops, 661
Aranda, M. A., 694N
Arceuthobium spp.
—*A. abietinum*, on mountain hemlock, 1274N
—*A. hawksworthii*, on Caribbean pine, in Hondurus, 815N
—*A. hondurense*, on pine, in Mexico, 72N
Argüello-Astorga, G. R., 692N, 1049N
Argun, N., 162, *690*
Arsenijevic, M., 443N
Artocarpus altilis, zonate leaf spot, in Taiwan, 1179N
Arul, J., 1014
Ascencio-Ibáñez, J. T., 692N, 1049N
Asclepias curassavica, powdery mildew, in Italy, 923N
Ascochyta spp., on chickpea, outbreak in Nebraska, 698N
—*A rabiei*, on chickpea, cover photo, June
Ash, coin canker, *Phlyctema vagabunda* cause, in Michigan, 442N
Asiedu, R., 919N
Asparagus, Fusarium crown and root rot:
—fungicides and biological control, 493
—mycorrhizae and formononetin and NaCl effect, 1318
Aspergillus spp., section Flavi, distribution in West Africa, 434
—*A. flavus*, on peanut: mycotoxin, sclerotial production, in Argentina, 215; on peanut, vegetative compatibility groups, DNA fingerprinting, 254
—*A. niger*, on grape, 75N; on grape, outbreak in Chile, 815N
Atchley, W. R., 1080
Aureobasidium pullulans
—on pear fruit, 625
—postharvest disease control by, 54
Authors, instructions, 78
Avgelis, A. D., 1345
Avocado, stolbur phytoplasma, in Spain, 692N
Ayres, A. J., 1206
Azad, H. R., 921N
Azalea, powdery mildew, in Italy, 329N
Azzum, O., 88

Babbitt, S., 326N
Bacillus thuringiensis, on corn, transgenic insect protection, 1156
Bailey, J. E., 1315
Bakadoost, M., 443N
Balcı, Y., 442N
Balmas, V., 599
Bandyopadhyay, R., 1374
Barley yellow dwarf virus, on wheat and oat, yield losses, 769
Barrau, C., 1049N, 1051N, 1178N
Barreto, D., 326N
Barros, T. S. L., 1142
Batlle, A., 692N
Batzer, J. C., 1325
Baute, T. S., 1123
Beale, J. W., 547
Bean golden mosaic virus, serological detection, 1109
Bean pod mottle virus
—on soybean: in Canada, 330N; cover photo, December
—soybean, production threat, 1280
Beckham, K. A., 1109
Beckman, P., 187N
Beebe, S., 1383
Beet necrotic yellow vein virus, on sugar beet, in Washington and Oregon, 72N
Beet soil-borne virus, on sugar beet, in Iran, 187N
Beetles, vectors for *Sirococcus clavigignenti-juglandacearum* on butternut, 521
Begomovirus, on *Croton bonplandianus*, in Pakistan, 444N
Bekheet, F. M., 373
Bélanger, R. R., 717
Belisario, A., 328N, 599, 897
Bell, J., 535
Bell, M. L., 1388
Bellardi, M. G., 444N
Bem, F., 329N
Bender, C. L., 883
Ben-Noon, E., 186N
Benson, D. M., 47
Bergdahl, D. R., 521
Berger, P. H., 1177N
Bernardy, M. G., 1406N
Berner, D. K., 1271N
Bertetti, D., 329N, 560N, 920N, 923N
Besoain, X., 694N

Bhatia, A., 1127
Biological control
—apple fire blight control, 639
—*Burkholderia cepacia* and *Rhizoctonia* for poinsettia stem and root rot, 47
—*Fusarium* spp. for asparagus crown and root rot, 493
—microorganisms for *Helminthosporium solani* on potato, 717
—myxobacteria and fungi, interactions, 889
—pyrenomycetous mycoparasite for Fusarium wilt of watermelon, 1025
—*Sporidesmium sclerotivorum* for soybean Sclerotinia stem rot, 999
—*Ulocladium atrum* on strawberry, 220
—yeasts to apple and pear gray and blue molds, 848
Biosca, E. G., 696N
Biplot analysis, host-by-pathogen data, 1396
Bipolaris spp.
—*B. coicis,* on *Coix lacryma-jobi,* resistance and yield components, 774
—*B. setariae,* on pearl millet, stalk rot complex, 833
Blackcurrant reversion virus, on *Ribes,* PCR detection, 1333
Blanchette, R. A., 462
Blanco Prieto, R., 1402N
Blanco, C., 1049N, 1051N
Blanco, I., 1402N
Blighia sapida, dieback, 74N
Blodgett, A. B., 747
Blodgett, J. T., 1199
Blomquist, C. L., 759
Blount, A. R., 326N
Blueberry (see also *Vaccinium corymbosum*)
—leaf spot and stem canker, in Florida, 188N
Blumeria graminis, on wheat, pathotypes in Morocco, 383
Blunt, T., 560N
Bobev, S. G., 699N, 1178N
Bockus, W. W., 298
Boehm, M. J., 1350
Boff, P., 220
Boland, G. J, 405, 1406N
Bony, S., 1272N
Borago officinalis, Alfalfa mosaic virus, in Spain, 698N
Boratynski, T. N., 1011
Borroto, C., 1050N
Borth, W. B., 331N
Boshoff, W. H. P., 485, 922N
Botha, W. J., 441N, 698N
Botryosphaeria spp.
—*B. dothidea:* on apple, *B. obtusa* comparison, Bolivia, 328N; on pistachio, latent infection and pattern, 282
—*B. rhodina,* on pistachio, shoot blight in California, 1273N
—*B. ribis,* on redbud, differential resistance among taxa, 880
Botrytis spp., on onion, PCR detection and RFLP differentiation, 682
—*B. cinerea:* conidial liberation, yeast effect, 1265; on *Medinilla magnifica,Mandevilla* and *Allamanda* spp., in Italy, 1175N; on palm, outbreak in Italy, 815N; on strawberry, fungicide timing, 1019; on waxflower, in South Africa, 440N
—*B. porri,* on onion seed, 1178N
Bottner, K. D., 330N
Boulter, J. I., 405
Bové, J., 697N
Bradley, C. A., 26, 1036
Brassica spp., bacterial leaf spot, in Ohio, 186N
—*B. napus,* Verticillium wilt, evaluation technique, 854
Brenneman, T. B., 349
Brenneria rubrifaciens, on walnut, in Europe, 696N
Brevipalpus phoenicis, vector for *Coffee ringspot virus,* in Costa Rica, 564N
Briddon, R. W., 444N
Bristow, P. R., 645
Brlansky, R. H., 1169, 1237
Broad bean wilt virus, on thyme, cover photo, February
Broad bean wilt virus 1, in Spain, 698N
Broadbent, P., 1169
Broccoli
—bacterial blight, new pathovar, 992
—bacterial soft rot, glucosinolate content effect, 629
Brown, C. R., 1177N
Brown, W. M., Jr., 560N
Browne, G. T., 1211
Bruckart, W. L., 814N, 1271N
Buck, J. W., 278
Bull, C. T., 889, 992
Bull, S. E., 444N
Buonaurio, R., 74N, 562N
Buraschi, D., 1085
Burkholderia cepacia, on poinsettia, Rhizoctonia stem and root rot controlled by, 47
Burpee, L. L., 1240
Burr, T. J., 162, *690*
Bushe, B. C., 71N
Butternut, canker, potential beetle vectors, 521

Cabbage leaf curl virus, serological detection, 1109
Cabral, D., 215
Cacciola, S. O., 327N, 561N, 1175N, 1176N
Cajanus cajun
—*Pigeon pea sterility mosaic virus,* mite transmission, 1297
—*Rhynchosia mosaic virus,* in Puerto Rico, 558N
Cajiao, C., 1383
Caldwell, P. M., 859
Caldwell, R. W., 747
Calla lily, powdery mildew, in California, 187N
Calopogonium golden mosaic virus, on bean, in Costa Rica, 188N
Cambra, M. A., 698N
Camellia spp., root rot, in Spain, 813N
Campanelli, G., 897
Campanula carpatica, Sclerotinia sclerotiorum on, in Italy, 71N
Campbell, C. L., 1094
Canaday, C. H., 629
Canola, brown girdling root rot and maggot damage, yield loss, 1005
Cappelli, C., 74N, 562N
Capsicum annuum
—bacterial spot, ammonium lignosulfate and potassium phosphate applications, 1232
—*Pepper mottle virus,* in New Mexico, 603
—Phytophthora root and crown rot, suppression by acibenzolar-*S*-methyl, 292
—*Tomato spotted wilt virus,* resistance in Italy, 950
—*Tomato yellow leaf curl virus,* in Cuba, 73N
Carballo, O., 697N
Cardin, L., 72N
Carduus natans, rust, in California and Nevada, 814N
Cardwell, K. F., 434
Carling, D. E., 1272N
Carnation, *Lisianthus necrosis virus,* in Taiwan, 444N
Carpio, M. L., 676
Carranza, M., 440N
Carras, M. M., 1247
Carroll, A., 151
Carroll, R. B., 813N, 1049N
Carrot
—Alternaria leaf blight, survival in crop residue, California and Florida, 1115
—foliar and root infection, in Ontario Canada, 1406N
—leaf blight, in Israel, 186N
Carson, M. L., 1089
Cassava, begomovirus, in Zanzibar, 187N
Cassava mosaic virus, in Zanzibar, 187N
Castillo, P., 1075
Castlebury, L. A., 442N, 922N, 1194
Castrillo, G., 1049N
Castro, A. C., 106
Catara, A., 560N
Catara, V., 1403N
Catharanthus roseus, web blight, in Louisiana, 1272N
Causin, R., 1403N
Çelek, H., 162, *690*
Centaurea solstitialis, Phoma exigua, Russia, 922N
Center, T. D., 813N
Center, T. R., 813N
Cephalosporium spp.
—*C. gramineum,* on wheat, germ plasm lines resistant to, 1043
—*C. maydis,* on greenhouse corn, competitiveness and virulence, 373
Ceratocytis spp., on larch and spruce, host specialization, 418
—*C. fagacearum,* on oak, trench inserts as barriers to transmission, 1067
Cercospora spp.
—*C. arachidicola,* on peanut, fungicides for management, 349
—*C. beticola,* on sugar beet, cover photo, April
—*C. sojina,* on soybean, Wisconsin, 1272N
—*C. zeae-maydis,* on corn: gray leaf spot, fertilizer and yield, 859; factors and severity, 1127; in Ontario, Canada, 327N; on corn, isolate variation in genotype-environment interaction, 1089
Ceri, H., 633
Cersis canadensis, canker, resistance in *Cersis* taxa, 880
Cervantes, L. A., 625
Chadha, M. L., 127
Chamelaucium uncinatum, Botrytis flower blight, in South Africa, 440N
Chancellor, T. C. B., 88
Chang, S. W., 774
Chang, T.-T., 820
Chang, Y.-C., 1273N
Charlet, L. D., 564N, 923N
Charron, C. S., 629
Chen, C. C., 444N
Chen, C. R., 131
Chen, H.-R., 74N
Chen, K.-P., 1273N
Chen, Q., 423
Chen, W., 729
Chen, X., 39
Chenopodium quinoa, downy mildew, in Denmark, 1175N
Childers, C. C., 564N
Choueiri, E., 697N
Christensen, P., 75N
Chrysomyxa weirii
—on blue spruce, cover photo, September
—on Colorado blue spruce, in Wisconsin, 1051N
Cicer arientinum, Ascochyta blight, outbreak in Nebraska, 698N
Cichorium endivia, lily mottle virus, 329N
Cintas, N. A., 992
Citrullus sp., bacterial fruit blotch, resistance, 61
—*C. vulgaris,* wilt and stem rot, in Serbia, 443N

Citrus
—Phytophthora gummosis, fungicide effect, 687
—postbloom fruit drop, benomyl for control, 620
—sour rot and green mold, chlorine toxicity to spores, 509
—variegated chlorosis, transmission with sharpshooter vector, 1237
Citrus spp.
—*C. bergamia,* Septoria spot, 71N
—*C. sinensis,* bark scaling, 560N
Citrus psorosis virus, on sweet orange, 560N
Citrus tristeza virus
—Australian isolate, histology of stem pitting, in orange, 1169
—on grapefruit, mixed infection, 458
—in Greece, 329N
—urban citrus population, assessment, 367
Citrus yellow mosaic badna virus, herbacous hosts, India, 920N
Clark, A. J., 1219
Clark, C. A., 695N
Clavibacter michiganensis, on tomato, epidemiology, 535
Claviceps africana, on sorghum, isolate comparisons in North America, Africa, Australia, and Asia, 1247
Closterovirus sp., on plum, bark necrosis-stem pitting disease association, 415
Cnockaert, M. C., 20
Cober, E. R., 971
Coertze, S., 440N
Coffee ringspot virus
—mite borne in Costa Rica, 564N
—oak leaf pattern, cover photo, May
Coffman, C. B., 356, 955
Cohen, Y. R., 448, *691*
Coix lacryma-jobi, leaf blight, resistance and yield components, 774
Colgrove, A. L., 1101
Colletotrichum spp.: on blueberry, ripe rot, cover photo, January; on strawberry, soil survival, 965
—*C. acutatum:* on citrus, benomyl effect, 620; on strawberry, in Bulgaria, 1178N; on strawberry, in New York, 922N
—*C. coccodes:* on *Mentha* spp., 695N; on potato, in Italy, 562N; on tomato, organic amendments, 156
—*C. destructivum,* on curly dock, 1271N
—*C. gloeosporioides,* on gueroba, in Brazil, 72N
—*C. graminicola,* on sorghum, pattern analysis in Mali, 1374
—*C. lindemuthianum:* on bean, race 73 in North Dakota, 562N; on bean, resistance and gene pools, 1383; on bean, symptoms, cover photo, March
Collins, J., 151
Colvin, J., 187N
Compost
—on tomato: diseases, 156; foliar diseases in bed strategies, 356
—turfgrass dollar spot control, 405
Comstock, J. C., 74N
Conci, V. C., 1085
Coniothyrium sporulosum, on English hawthorn, in Italy, 1403N
Conner, R. L., 423
Cook, D. W. M., 1265
Cook, R. J., 780
Cooksey, D. C., 921N
Coplin, D. L., 304, *433*
Corazza, L., 74N, 599, 897
Corn
—aflatoxin contamination in field, resistance evaluation, 232
—*Aspergillus* spp. on, section Flavi in West Africa, 434
—corn borer injury, fungus association, insect protection, 1156
—deoxynivalenol content, postharvest, 1123
—false smut, Mississippi Delta, 1179N
—gray leaf spot: factors and severity, 1127; fertilizer effect on yield, 859; in Ontario, Canada, 327N; isolate variation in genotype-environment interaction, 1089
—late wilt, competitiveness and virulence, in greenhouse, 373
—mollicute infection, growth and nutrition, 945
—*Puccinia polysora,* in Argentina, 187N
—seedling blight, seed treatment, 143
—stalk rot, Bt hybrids, 1149
—Stewart's disease, strain differentiation, 304,*433*
—Stewart's wilt, plant to seed transmission, 167
—sweet, Stewart's wilt, seed transmission to seedlings, 1031
Coronilla valentina, Phytophthora palmivora, in Italy, 327N
Correll, J. C., 791
Corsini, D., 1177N
Corylus avellana, bacterial canker and decline, 704
Costa, P. I., 1206
Cotillon, A. C., 1052N
Cotty, P. J., 434
Coutinho, T. A., 20
Covarelli, L., 562N
Cover photo
—*Acidovorax avenae,* on watermelon, April
—*Albugo occidentalis,* on spinach, July
—almond, witches'-broom and shoot proliferation, May
—*Aphanomyces cochlioides,* on sugar beet, March
—*Ascochyta rabiei,* on chickpea, June
—*Bean pod mottle virus,* on soybean, December
—*Broad bean wilt virus,* in thyme, February
—*Cercospora beticola,* on sugar beet, leaf damage, April
—*Chrysomyxa weirii,* on blue spruce, September
—*Coffee ringspot virus,* May
—*Colletotrichum* spp., on blueberry, ripe rot, January
—*Colletotrichum lindemuthianum* on bean, March
—*Cylindrocladium avesiculatum,* on cassina, February
—*Erwinia rhapontici,* on bean, lesions, August
—*Helminthosporium sigmoideum,* on rice, December
—*Inonotus rickii,* on boxelder, stem rot, August
—melon, sudden wilt, May
—*Mycosphaerella musicola,* on plantain, yellow sigatoka, October
—*Papaya ringspot virus,* disease progress, February
—*Phlyctema vagabunda,* on ash, April
—*Phytophthora cactorum,* on horse chestnut, June
—*Phytophthora capsici,* on pothos, rot, September
—*Phytophthora ramorum* on *Quercus agrifolia,* canker, March
—*Pineapple mealybug wilt associated virus*-2, on pineapple, August
—*Pseudomonas avellanae,* on hazelnut, July
—*Pseudomonas syringae,* on spinach, leaf spot, September
—*Puccinia hemerocallidis,* on daylily, November
—*Rhizoctonia solani,* on Madagascar periwinkle, November
—*Septoria limonum,* on bergamot fruit, January
—*Sorosporium provinciale,* on big bluestem, December
—*Sphaerotheca ferruginea,* on *Sanguisorba minor,* symptoms, October
—*Spilocaea oleaginea,* on olive, leaf spot, January
—*Sporidesmium sclerotivorum,* on soybean, Sclerotinia stem rot control, September
—strawberry phylloid fruit phytoplasma, on strawberry, November
—*Tobacco rattle virus,* on potato, May
—*Venturia inaequalis* on apple, July
—*Verticillium dahliae,* on potato, November
—walnut, brown apical necrosis, June
—*Xylella fastidiosa,* on grape, leaf symptom, October
Cox, C. M., 1043
Cram, M. M., 803
Cramer, C. L., 652
Cranberry, fruit rot disease complex, calcium salt effect, 747
Crataegus monogyna, twig canker, in Italy, 1403N
Crawford, W. E., 1109
Creamer, R., 603
Crepel, C., 563N
Crespo, J., 1050N
Creswell, T., 73N
Cristulariella moricola
—on *Artocarpus altilis,* in Taiwan, 1179N
—on *Vigna vexillata,* cause, 440N
Crosslin, J. M., 1177N
Croton bonplandianus, yellow vein symptoms, in Pakistan, 444N
Crucifers, bacterial diseases, inoculum detection and survival, in Oklahoma, 883
Cruz, I., 945
Cucumber
—foliar pathogens, prevalence and ecology in North Carolina, 1094
—root and stem rot, grafting for control, 379
Cucumber mosaic virus, on *Polygala myrtifolia,* new host, 1403N
Cucumis spp., *Phytophthora capsici,* in Spain, 558N
—*C. melo:* Fusarium wilt, resistance to race 1,2, 897; wilt and stem rot, in Serbia, 443N
Cucurbit
—gummy stem blight, detection by PCR-ELISA, 710
—powdery mildew, bio- and chemical fungicides, detached leaves, 915
Cucurbita moschata, bacterial disease in seedlings, in Australia, 1406N
Culbreath, A. K., 349, 939
Cummings, T. F., 264
Cummings-Carlson, J., 1051N
Cuppels, D. A., 1232
Cupressocyparis leylandii, Pestalotiopsis funerea, in Italy, 1402N
Curtobacterium flaccumfaciens, on bean, in Canada, 1275N
Curvularia spp., on rice, cultivar resistance, 470
Cyclamen, Fusarium wilt, inoculum density and sodium chloride effect, 389
Cylindrocarpon destructans, on oak, in Spain, 693N
Cylindrocladium avesiculatum, on cassina, leaf spot, cover photo, February
Cynoglossum officinale, Alfalfa mosaic virus on, 444N

d'A. Charchar, M. J., 72N
Dalbulus maidis, maize bushy stunt phytoplasma vector, 945
Dally, E. L., 1142

Damicone, J. P., 753, 883
Damsteegt, V. D., 1169, 1237
Danet, J. L., 697N
Danielsen, S., 1175N
Dankers, W., 326N
Daugherty, C., 72N
Davide, R. G., 1339
Davidson, C. R., 813N, 1049N
Davidson, J. M., 205, 1274N
Davino, S., 327N, 561N, 1176N
Davis, R. E., 443N, 920N, 1142, 1177N
Davis, R. M., 330N, 692N, 1115, 1363
Dean, R. A., 710
De Boer, S. H., 960
Decision Support System, conceptual diagram for pest management, 4
de Gruyter, J., 699N
Delatte, H., 1404N
Delecolle, B., 1052N
de los Santos, B., 1049N, 1051N, 1178N
de Luna, L. Z., 470
de Oliveira, E., 945
del Río, L. E., 562N, 971, 999
Derie, M. L., 1178N
Derksen, R. C., 26
Dernoeden, P. H., 1253, 1290
DeTar, W. R., 1211
Diaporthe phaseolorum, on soybean, outbreak in Argentina, 1403N
Díaz, C. G., 187N
Díaz, J. A., 694N
Díaz, L., 1049N
Diaz, M., 188N
Diaz-Perez, J. C., 106
Dicklow, M. B., 1050N
Dicksein, E., 188N
Didymella bryoniae
—on cucurbit, detection by PCR-ELISA, 710
—on pumpkin, management, cover crop and fungicides, 1134
—on watermelon, survival in vines, South Carolina, 32
Diers, B. W., 971
Digitalis purpurea, downy mildew, in California, 1176N
Dimou, D., 329N
Dioscorea rotundata, Nattrassia mangiferae on, postharvest, Nigeria, 919N
Dixelius, C., 854
Dixon, E., 235
Dixon, P. M., 1325
Dobler, G., 1275N
Doctor, J., 509
Domínguez, J., 736
Domínguez, M., 1050N
Dominiak, J. D., 813N
Dorrance, A. E., 26
Douhan, L. I., 695N
Dovas, C. I., 1345
Dowdy, A. K., 1011
Dowell, F. E., 1011
Draper, M., 923N
Drenth, A., 362
Driever, G. F., 282
Drossopoulou, J., 329N
Dufour, O., 1052N
Dugan, F. M., 188N
du Toit, L. J., 1178N

Eastwell, K. C., 661, 1177N
Echemendía, A. L., 1049N
Eizenberg, H., 814N
Eizenga, G. C., 808
Ekpo, E. J. A., 919N
El-Assiuty, E. M., 373
El Naimi, M., 499
El Zammar, S., 697N
Elena, K., 1176N
Elmer, W. H., 389, 1318
Elmore, W. C., 1405N
Epichloe festucae, on fescue grass, endophyte, 1272N
Epilobium hirsutum, phytoplasma, group 16SrI, Estonia, 1177N
Epipremnum aureum, Phytophthora capsici on, new host, 1050N
Erickson,R. S., 921N, 1275N
Errata
—vol. 86, no. 2, 2002, *690*
—vol. 86, no. 3, 2002, *433*
—vol. 86, no. 5, 2002, *691*
—vol. 86, no. 5, 2002, *924*
Erwinia spp., on potato, postharvest, fingerprinting for detection, 131
—*E. amylovora,* on apple: acibenzolar-*S*-methyl for, 785; biocontrol agents, 639
—*E. ananas, E. uredovora* comparison, on *Eucalyptus* spp. in South Africa, 20
—*E. carotovora,* on potato, stolon and tuber tissue infection, Canada, 960
—*E. chrysanthemi,* on calla lily, bacterial soft rot, in Taiwan, 1273N
—*E. rhapontici:* on bean, lesions, cover photo, August; on bean, pink seed, 921N; on pea, 188N
—*E. stewartii,* on corn, plant to seed transmission, 167; on sweet corn, seed transmission, rates, 1031
Erysiphe pisi, on *Medicago* spp., core germ plasm collection, 312
Eschemendía, A. L., 1050N
Escherichia coli begomoviruses in, viral coat protein, serology, 1109
Espárrago, G., 1402N
Eucalyptus spp., bacterial blight and dieback, in South Africa, 20
Euryops pectinatus, powdery mildew, Italy, 920N
Evans, T. A., 813N, 1049N
Everts, K. L., 356, 955, 1134

Fagopyrum esculentum, Sclerotinia root rot, threat in India, 1404N
Fahmy, Z. M., 373
Falk, D. E., 1396
Fan, Q., 848
Farzadfar, Sh., 187N
Farzadfar, Sh., 561N
Fe!.s, D., 282, 75N, 1273N
Fernández, A., 1049N
Fernández-Cavada S., 698N
Fernandez-Pavia, S. (New Mexico), 603
Fernández-Pavía, S. P. (Mexico), 73N, 563N, *924*
Ferreira, S. A., 101
Festuca ampla, Epichloe festucae endophyte, 1272N
Ficcadenti, N., 897
Finetti Sialer, M., 54
Fisher Gregory, N., 696N
Fitch, M.,
Focus, 3, 87, 191, 335, 447, 567, 703, 819, 927, 1055, 1183, 1279
Follett, P. A., 71N
Fomitiporia punctata, on kiwifruit, in Greece, 1176N
Fonseca, D., 73N, 814N
Font, M. I., 696N
Fors, A., 74N
Fraedrich, S. W., 803
Francl, L. J., 1050N
Frankliniella fusca, Tomato spotted wilt virus vector, weed hosts, 573
Freeman, S., 965, 1178N
Freitas-Astua, J., 1109, 1402N
French, C. J., 1406N
Fry, W. E., 73N, 1163
Fu, C. H., 1179N, 1275N
Fuentes, A., 1049N
Fukuda, S. K., 331N
Fulbright, D. W., 535
Fulvia fulva, on tomato, in Chile, 694N
Fungicides, general (see also Fungicides, specific)
—acidic electrolyzed oxiding water, 278
—asparagus crown and root rot control, 493
—cucurbit powdery mildew, biofungicide comparison, 915
—lettuce bacterial leaf spot, seed treatments, 151
—peach constriction canker, factors, 721
—peanut leaf spot, management, 349
—peanut Sclerotinia blight, outbreaks and control, 118
—Phytophthora gummosis on citrus, 687
—pumpkin powdery mildew, blight and black rot, schedules, 1134
—Sclerotinia stem rot on soybean, potential, 26
—seed treatment, corn seedling blight, 143
—strawberry fruit rot, fungicide applications and timing, 1019
—tomato foliar diseases, spray programs, 955
—wheat root disease, seed treatment, 780
Fungicides, specific (see also Fungicides, general)
—acibenzolar-*S*-methyl, apple fire blight, resistance inducers, 785
—acibenzolar-*S*-methyl and fluazinam, on peanut, Sclerotinia blight, 1315
—azoxystrobin, grape powdery mildew, myclobutanil relation, 394
—benomyl, citrus postbloom fruit drop, 620
—calcium, cranberry fruit rot disease complex, 747
—copper, walnut bacterial blight control, 583
—mefenoxam, *Pythium irregulare* on ornamentals, in California, 692N
—metalaxyl: apple root to *Pythium* spp., 669; *Phytophthora* and *Pythium* on potato, North American isolates, 797; tobacco black shank, cultivar role, 362
—metam sodium, potato stem rot, irrigation application, 1211
—propiconazole: for oak wilt, 1067; turfgrass dollar spot control, 1240
—strobilurin, *Pyricularia grisea* on ryegrass, resistance, 235
Fusarium spp.: on asparagus, crown and root rot, fungicides and biological control, 493; on asparagus, mycorrhizae and formononetin and NaCl effect, 1318; on corn, seedling blight, seed treatment, 143; on pearl millet, stalk rot complex, 833
—*F. graminearum,* on durum wheat, biological control, 1350
—*F. hostae,* in *Hosta* spp., cultural practice and temperature effects, 225
—*F. oxysporum:* on cucumber, grafting for control, 379; on cyclamen, inoculum density and sodium chloride effect, 389; on lettuce, first report in Europe, 1052N; on muskmelon, resistance to race 1,2, 897; on onion, vegetative compatibility groups, Colorado, 606; on sweet basil, in Spain, 1402N; on watermelon, wilt control with mycoparasite, 1025
—*F. sambucinum,* on potato tubers, volatile fingerprinting for detection, 131
—*F. solani:* on pea, *Aphanomyces* relation, 411; on soybean, partial resistance and aeroponic chambers, 1223; on soybean, resistance germ plasm, evaluation, 741
Fusicoccum sp., on pistachio, identification technique, 515

Gaeumannomyces graminis
—avenacinase-like genes for variety

identification, 652
—on paspalum, first report in USA, 1405N
—on winter wheat, inoculum placement effect, 298
Gagnier, D., 330N
Gallian, J. J., 72N
Gallitelli, D., 54
Gally, M., 326N
Garbaldi, A., 1052N
Garbelotto, M., 205, 814N, 1274N
García Criado, B., 1272N
Garcia Faraco, J., 692N
Garibaldi, A., 71N, 329N, 560N, 920N, 923N
Garlic, *Leek yellow stripe virus,* variation in Argentina, 1085
Garnier, M., 697N
Gaska, J. M., 26
Gatch, E. W., 1149, 1156
Geary, B., 695N
Geastrumia polystigmatis, on apple, postharvest removal chemical treatment, 1325
Gebre-Selassie, K., 1052N
Geider, K., 304, *433*
Geiser, D. M., 1227
Gent, D. H., 560N
Geotrichum candidum, on sweetpotato, in North Carolina and Louisiana, 695N
Geotrichum citri-aurantii, chlorine effect on spores, 509
Geraldo-Verdugo, J. A., 563N, *924*
Gergon, E. B., 1339
Gerlagh, M., 220
Ghabrial, S. A., 1260, 1280
Ghotbi, T., 694N
Giesler, L. J., 1280
Gilardi, G., 329N, 560N, 1052N
Gilbertson, R. L., 330N, 1115
Gitaitis, R. D., 106, 326N
Gleason, M. L., 179, 1325
Gliocephalotrichum, on rambutan, in Hawaii, 71N
Globodera tabacum, on tobacco, complex in Spain, 1402N
Glomerella cingulata, on guava, in Argentina, 440N
Glozer, K., 543
Goad, C. L., 764
Gognalons, P., 1052N
Goheen, E. M., 441N
Golan, S., 814N
Goldbach, W. R., 1404N
Goley, E. D., 1247
Golnaraghi, A. R., 187N, 561N
Gómez Talquenca, S., 921N
Gómez Vázquez, J., 1402N
Gomide, R. L., 945
Gonsalves, D.,
Gonthier, P., 814N, 1402N
González, R., 696N
Gooch, M. D., 1405N
Goodman, M. M., 1089
Gopal, K., 920N
Gorbet, D. W., 939
Gordon, D. T., 138
Gosparini, C. O., 1403N
Gossen, B. D., 588
Gotlieb, A. R., 269
Gotta, P., 329N
Gottwald, T. R., 259, 367
Grabau, E. A., 652
Graef, G. L., 971
Graf, R. J., 423
Granier, M., 1404N
Grape
—Aspergillus vine canker, 75N
—'Bois Noir' disease, in Lebanon, 697N
—bunch rot, outbreak in Chile, 815N
—crown gall, strain in Anatolia, 162, *690*
—Pierce's disease, citrus and coffee strains, 1206
—powdery mildew, isolate sensitivity to azoxystrobin, 394
—*Xylella fastidiosa,* other emergent diseases, in California, 1056
Grapefruit, *Citrus tristeza virus,* mixed infection, 458
Grau, C. R., 26, 269, 411, 695N, 729, 971, 1272N
Graves, W. R., 74N
Gray, F. A., 928
Greathead, A. S., 692N
Griffey, C. A., 383
Grimes, L. W., 666
Gritsenko, M. A., 928
Gros, C., 1052N
Gross, P. L., 562N
Groundnut bud necrosis virus, in Iran, 561N
Groundnut ringspot virus, on soybean, South Africa, 1271N
Grove, G. G., 693N
Groves, R. L., 573
Grunder, J., 919N
Grünwald, N. J., 73N, 1163
Guan, J., 269
Gudmestad, N. C., 797
Guerri, J., 698N
Guirado Moya, M. L., 1402N
Gull, C., 441N, 1175N
Gullino, M. L., 71N, 329N, 560N, 920N, 923N, 1052N
Gulya, T. J., 564N, 919N, 923N
Gurer, M., 697N

Hahm, Y. I., 112
Hakim, M. S., 499
Halbrendt, J. M., 1339
Halik, S., 521
Halmschlager, E., 442N
Hamasaki, R. T., 331N
Hamm, P. B., 72N, 1177N
Hammerschmidt, R., 785
Hanna, W. W., 326N, 909
Hansen, D. R., 241
Hansen, E. M., 441N
Happstadius, I., 854
Harikrishnan, R., 1369
Harnik, T. Y., 1274N
Harrington, T. C., 418
Harrison, N. A., 676
Hartman, G. L., 26, 741, 971, 1036, 1223
Hartung, J. S., 1206, 1237
Harveson, R. M., 192, 698N, 901, 1025, 1051N
Harvey, T. L., 138
Hassan, S., 561N
Hausbeck, M. K., 493, 535
He, C.-X., 1206
He, S-Y., 785
Heidenreich, C., 922N
Hein, G. L., 192
Heinz, R. D., 1101
Hellmich, R. L., 1149
Helminthosporium spp.
—*H. sigmoideum,* on rice, cover photo, December
—*H. solani,* on potato: antagonist microorganisms, 717; organic and inorganic salt effect, 1014
Helms, T., 971
Hemerocallis spp., rust, new disease in Americas, 1194
Henny, R. J., 562N
Herbicides
—*Rhizoctonia solani* on glyphosate-tolerant soybean, disease affected by, 1369
—soybean seed quality effect, 1036
—trifluralin, oak wilt effect, 1067
Hernández, J. R., 75N, 187N, 1194
Herranz, M. C., 1405N
Hervieux, V., 1014
Hess, D. E., 1374
Heterobasidion spp., on European pines, 814N
Heterodera glycines, on soybean, race shift lack in fields, 1101
Hibiscus cannabinus, basal stem rot, in South Africa, 698N
Hiebert, E., 1109
High Plains virus, on wheat, transmission by mites, 138
Hill, J. H., 1280
Hockenhull, J., 1175N
Hodges, C. S., 699N
Hoffman, D. D., 971
Hoitink, H. A. J., 156
Holbrook, C. C., 939
Holcomb, G. E., 1272N
Holguín-Peña, J., 563N, *924*
Hollingsworth, C. R., 928
Holmes, G. J., 345, 695N
Homalodisca coagulata, on grape, vector for emergent diseases on grape, 1056
Hooker, D. C., 611, 1123
Hop laent virus, Hop mosaic virus compared to, 661
Hop stunt viroid, on peach, mixed with *Peach latent mosaic viroid,* 329N
Hopkins, D. L., 61, 875, 1025, 1056
Horlock, C. M., 1406N
Horn, B. W., 254
Horsten, P. J. F. M., 220
Hosta spp., Fusarium root and crown rot, cultural practice and temperature effects, 225
Host-pathogen relation, biplot analysis, 1396
Howd, D. S., 1169
Howell, B., 440N, 815N
Hsiang, T., 1178N
Hsiao, W. W., 1179N
Hsieh, H. J., 1275N
Hsieh, T. F., 921N, 1275N
Hsu, H. T., 444N
Hu, B. Y., 1179N
Hu, J. S., 331N, 867, 933
Huang, H. C., 921N, 1275N
Hudelson, B., 987
Hughes, G., 259, 367
Hughes, M. E., 15, 981
Hughes, T. J., 729
Humulus lupulus, viruses in Washington State, 661
Hung, Y.-C., 278
Hunt, D. W. A., 330N
Hunt, T. E., 1280
Hussain, M., 444N
Hwang, B. K., 774
Hwang, J., 47
Hypericum edisonianum, Sphaeropsis tumefaciens on, in Florida, 1177N

Illincic-Tamburic, L., 1123
Imani, Y., 383
Impatiens necrotic spot virus, on ornamentals, in Iran, 694N
Inghelbrecht, S., 563N
Inonotus rickii, on boxelder:
—on boxelder, stem rot, cover photo, August
—in Europe, 922N
Integrated pest management, *Cercospora beticola* on sugar beet, 336
Intini, M., 697N, 922N
Iram, S., 444N
Iris yellow spot virus, on onion, in Colorado, 560N
Irish, B. M., 791
Irrigation
—alfalfa Verticillium wilt, 588
—sugar beet, multiple root diseases influenced by, 901

Isatis tinctoria, rust, biocontrol, epidemiology, 241
Ismael, A.-S. M., 373
Italia, R. R., 1085
Ivors, K. L., 645

Jackson, L. 39
Jacobs, K. A., 880
Jacobsen, S.-E., 1175N
Jansen, M., 220
Jara, C. E. 1383
Jasinskaite, R., 443N
Jeffers, S. N., 225
Jefferson, P. G., 588
Jensen, D. F., 682
Jesperson, G., 1406N
Jia, X., 423
Jiménez-Díaz, R. M., 1075
Jock, S., 304, *433*
Joel, D. M., 814N
Johnson, A. W., 909
Johnson, D. A., 264, 695N
Johnson, E. S., 1080, 1303
Jomantiene, A. R., 443N
Jomantiene, R., 920N, 1177N
Jones, A. L., 785
Jones, A. T., 1297, 1333
Jones, J. B., 188N
Jones, R. A. C., 769
Jones, S. S., 1043
Jorda, M. C., 696N
Jreijiri, F., 697N
Juglans regia (see Walnut)
Jung, H. W., 112
Jung, T., 1275N

Kabbage, M., 298
Kaiser, W. J., 328N
Kaminski, J. E., 1253, 1290
Kanaskie, A., 441N
Kanematsu, S., 1405N
Kang, S., 1227
Karadimos, D. A., 1051N
Karakashian, A., 477
Karaoglanidis, G. S., 1051N
Karkashian, J. P., 188N
Karssen, C., 919N
Katan, J., 965
Katis, N. I., 1345
Keeling, B., 1179N
Keinath, A. P., 32, 710
Kennedy, G. G., 573
Kenny, S. T., 661
Khan, J. A., 328N
Khan, M. A., 444N
Khan, N. I., 1350
Kim, C.-J., 440N, 1271N
Kim, K.-H., 112
Kim, K. S., 179
Kim, S. H., 1049N, 1227
Kim, W.-S., 304, *433*
Kimbrough, J. W., 1025
King, S. B., 65
Kinkel, L. L., 547
Kirkpatrick, B. C., 543, 759
Kistler, H. C., 1177N
Kitajima, E. W., 1402N
Kizilkaya, K., 493
Klein, R. E., 661
Klein-Gebbinck, H. W., 1005
Klonari, K., 1051N
Knopp, B. R., 241
Ko, W.-H., 820
Koehler, K. J., 179
Köhl, J., 220
Koike, S T.,187N, 205, 921N, 992, 1176N, 1274N
Kolmer, J. A., 288, 981
Komen, J. S., 922N
Konstantinov, M. Y., 418
Kora, C., 1406N
Kramer, M., 880
Kriel, W.-M., 693N
Krupinsky, J., 923N
Kulkarni, N. K., 1297
Kumar, P. L., 1297
Kurle, J. E., 26
Kurtzweil, N. C., 1272N
Kushalappa, A. C., 131
Kuzyk, A. D., 423

La Rosa, R., 329N, 560N
Labuschagne, N., 441N, 1175N
Lacy, G. H., 652
Laing, M. D., 859
Lalancette, N., 721
Lamppa, R. S., 562N
Langston, D. B., Jr., 118
Lapidot, M., 429
Larix sp., *Ceratocystis* spp., host specialization, 418
Laroche, A., 423
Larran, S., 440N
Larsen, R. C., 928
Lasiodiplodia theobromae, on cashew, in Brazil, 558N
Lasmenia sp., on rambutan, in Hawaii, 71N
Latorre, B. A., 694N, 815N, 1357
Lavender angustifolia, Phytophthora palmivora, new pathogen in Italy, 561N
Laviña, A., 692N
Lazarovits, G., 1232
Leahy, R. M., 74N
Lee, B., 131
Lee, F. N., 808
Lee, H. B., 440N, 1271N
Lee, I.-M., 330N, 477
Lee, Y.-A., 1273N
Leek yellow stripe virus, in garlic, in Argentina, 1085
Legard, D. E., 1019
Lemay, A. V., 1315
Leonard, K. J., 15, 593, 981
Leptodontium elatius, on apple, sooty blotch complex, chemical treatment, 1325
Lesemann, D.-E., 329N
Leslie, J. F., 373
Lester, D. G., 1067
Lett, J. M., 1404N
Lettuce
—bacterial leaf spot seed treatments, 151
—Fusarium wilt, first report in Europe, 1052N
—root rot and wilt, in hydroponic lettuce, in South Africa, 1175N
Leveillula taurica, on calla lilly, in California, 187N
Lévesque, C. A., 669
Levy, L., 259
Lewis-Ivey, M. L., 186N
Li Destri Nicosia, M. G., 561N
Li, Hongjie, 423
Li, Hui, 423
Li, S., 1223
Li, T.-F., 74N
Li, W.-B., 1206
Liddell, C., 603
Ligoxigakis, E. K., 379
Lily mottle virus, on escarole, 329N
Limonomyces roseipellis, on ryegrass, in Italy, 74N
Lin, Y., 458
Line, R. F., 39
Lisa, V., 329N
Lisianthus necrosis virus, on carnation, in Taiwan, 444N
Lithocarpus densiflorus
—*Phytophthora ramorum,* sudden oak death cause, 441N
—sudden death and canker, in California, 205
Little cherry virus, virus variant in British Columbia, Canada, 1406N
Little, E. L., 543
Liu, H. B., 848
Lockhart, B. E. L., 74N
Lolium perenne: gray leaf spot, in California, 75N; gray leaf spot, mating type alleles and fertility, 827; pink patch, in Italy, 74N
Lombaers-van der Plas, C., 220
Long, D. L., 15, 39, 568, 981
Longidorus sp., on pine, stunting and root damage, in Georgia, 803
Herrera, C. J., 692N
López, F, 696N
López, M. M., 696N
López Herrera, C. J., 692N
López-López, M. J., 696N
Lora, F., 693N
Louie, R., 138
Louro, D., 696N
Lozoya Saldaña, H., 1163
Lui, L. H., 131
Luis-Arteaga, M., 698N
Lunello, P., 1085
Lupien, S. L., 188N
Luque, A., 1403N
Luster, D. G., 814N, 1271N
Lydon, J., 955

Ma, Z., 515
Maas, J. L., 920N
Maccaroni, M., 74N, 328N, 599, 897
MacKenzie, S. J., 1019
Mackey, B., 509
Macrophomina phaseolina
—on sugar beet, new in Greece, 1051N
—on sunflower, in North and South Dakota, 923N
Macroptilium yellow mosaic virus, new virus in Cuba, 1049N
Madden, L. V., 316
Maden, S., 162, *690*
Maeso, D., 1405N
Magalhães, P. C., 945
Magarey, P. A., 4
Magarey, R. D., 4
Magnaporthe grisea, on ryegrass and St. Augustinegrass, mating type alleles, 827
Mahuku, G. S., 1383
Maize (see Corn)
Majerczak, D. R., 304, *433*
Mallor, C., 698N
Maloney, P. E., 1274N
Malvick, D., 560N
Management
—disease or pest, Decision Support System, 4
—leaf wetness duration, site-specific estimation, model, 179
—peanut late leaf spot, fungicides, 349
—rice tungro disease, Asia, 88
—tomato diseases, organic amendments, 156
Mandal, B., 939
Mandevilla spp., Botrytis blight, in Italy, 1175N
Manfio, G. P., 633
Manshardt, R.,
Mansilla, J. P., 813N
Mansoor, S., 444N
Marchoux, G., 1052N
Margina, A. F., 699N
Marigold, nematode control in tomato and melon, 505
Marini, D. B., 415
Markham, J. G., 444N
Marques, L. L. R., 633
Marshall, D., 39
Martin, D. L., 764
Martin, H. L., 1406N

Martin, T. J., 138
Martínez Zubiaur, Y., 814N
Martinez, C., 717
Martinez, Y., 73N
Martínez-Culebras, P., 696N
Martini, M., 477
Martinson, C. A., 999
Maruthi, M. N., 187N
Marys, E., 697N
Masenga, V., 950
Matheron, M. E., 292, 687
Mathiasen, R., 72N, 440N, 815N, 1274N
Maxson-Stein, K., 785
Maxwell, D. P., 188N, 814N
Mayo, M. A., 173
Mazzola, M., 669
McAlpin, C. E., 254
McDonald, M. R., 1406N
McGavin, W. J., 1333
McGovern, R. J., 1388
McGrath, M. T., 915
McKirdy, S. J., 769
McMahon, M., 1271N
McManus, P. S., 747
McMillan, R. T., Jr., 74N
McNew, D. L., 418
McSorley, R., 1388
McVey, D. V., 568
McWilliams, M. G., 441N
Medicago spp., mildew, core germ plasm collection, 312
Medinilla magnifica, Botrytis blight, first report in Italy, 1175N
Mehraban, A. H., 694N
Melero-Vara, J. M., 697N, 736
Melgar, J., 440N, 815N
Melilotus alba, rust, in Kansas, 1404N
Meloidogyne spp.: on olive, populations in Spain, 1075; on pearl millet, resistance, 909; on tomato, resistance in Tanzania, 127
—*M. graminicola,* on onion, growth and yield effect, 1339
—*M. hapla,* on vegetables, in New York, 840
—*M. incognita,* on tomato and melon, marigold for control, 505
—*M. kralli,* on sedges, Switzerland, 919N
—*M. partityla,* on pecan, in Georgia, 441N
Melon, root-knot nematode, marigold for control, 505
Melon necrotic spot virus, recessive *nsv* gene, 694N
Méndez-Lozano, J., 692N
Meng, X., 330N
Mengistu, A., 1272N
Mentha spp., *Colletotrichum coccodes* on, 695N
Mergaert, J., 20
Mertely, J. C., 1019
Michael, J. L., 1271N
Michailides, T. J., 282, 515, 75N, 1273N
Michaud, M., 717
Michelutti, R., 330N
Michener, P. M., 167, 1031
Microsphaera azaleae, on azalea, in Italy, 329N
Mikitzel, L. J., 264
Mikota Gabler, F., 509
Miles, N., 859
Milks, M., 1406N
Miller, G. L., 1240
Miller, J. S., 264
Miller, S. A., 156, 186N, 1339
Mills, D. J., 356, 955
Milus, E. A., 39
Minuto, A., 71N, 920N, 923N
Miranda, V. S., 1206
Mitkowski, N. A., 840
Mo, X.-H., 74Nv
Model
—deoxynivalenol content in wheat, weather factors, 611
—generalized linear mixed, 316
—leaf wetness, site-specific estimation, 179
—risk reduction measures, probabilistic assessment, 552
Molinero-Ruiz, M. L., 697N, 736
Momen, B., 1290
Momol, E. A., 162, *690*
Momol, M. T., 162, 326N, *690*
Momordica charantia, begomovirus association, India, 328N
Mondal, K. K., 1404N
Mondjana, A. M., 695N
Monilinia fructicola, on peach, inoculum production factors, 666
Monosporascus cannonballus, on melon, cover photo, May
Montecchio, L., 1403N
Montero-Astúa, M., 1273N
Montesinos, E., 583
Moore, M., 39
Moorman, G. W., 1227
Moragrega, C., 583
Moralejo, E. (Spain), 1052N
Morandi, E. N. (Argentina), 1403N
Moreira, L., 330N, 564N, 1402N
Morelock, T. E., 791
Moreno, P., 698N
Morgan, D. P., 75N, 282, 1273N
Morgan, R. N., 326N
Moriones, E., 694N
Morris, J., 1271N
Moschos, E., 329N
Moury, B., 72N
Moyer, J. W., 573
Mrosso, L. K., 127
Mueller, D. S., 26, 741, 1223
Mulrooney, R. P., 696N, 813N, 1049N
Mündel, H.-H., 921N, 1275N
Muniyappa, V., 1297
Munkvold, G. P., 143, 1127, 1149, 1156
Murray, T. D., 1043
Mycorrhizae, on asparagus, Fusarium crown and root rot relation, 1318
Mycosphaerella musicola, on plantain, yellow sigatoka, cover photo, October
Mycotoxin
—Aflatoxin, corn inbred advanced lines, evaluation, 232
—*Aspergillus flavus* on peanut, in Argentina, 215
—deoxynivalenol: in corn at harvest, 1123; in wheat, weather factors, 611
Myxobacteria, fungus interaction, biocontrol agents, 889

Nagao, M. A., 71N
Nagata, R., 151
Nakaho, K., 987
Naseri, B., 693N
Nasturtium microphyllum, phytoplasma, in Hawaii, 331N
Natalini, G., 562N
Nattrassia mangiferae, on yam, in Nigeria, 919N
Nectria haematococca, on olive, in Argentina, 326N
Nelson, B. D., 971
Nelson, M. E., 661
Nelson, R. L., 741, 971
Nematodes, on bentgrass putting greens, in Oklahoma, factors, 764
Nephelium lappaceum, fruit rot, in Hawaii, 71N
Ngugi, H. K., 65
Niblack, T. L., 1101
Nickell, C. D., 971
Nickrent, D., 72N
Nico, A. I., 1075
Nicolotti, G., 814N, 1402N
Nielsen, K., 682
Nieto, C., 694N
Ninot, A., 583
Nishijima, K. A., 71N
Nita, M., 316
Nome, S. F., 1085
Nono-Womdim, R., 127
Norman, D. J., 562N
Novas, M. V., 215
Ntahimpera, N., 282
Nuñez, J. J., 330N, 1115, 1363
Nutter, F. W., Jr., 269, 769, 1325
Nyczepir, A. P., 441N

Oak
—sudden death, canker, in California, 205
—wilt, root transmission and long-term barriers, trench inserts, 1067
Oat
—*Barley yellow dwarf virus,* yield losses, 769
—crown rust, resistant lines, 593
—phytoplasma, group 16SrI, subgroup A, 443N
—take-all, PCR identification, 652
Obradovic, A., 443N
Ochoa-Álvarez, N., 563N, *924*
Ocymum basilicum, Fusarium wilt, in Spain, 1402N
Oetting, R. D, 278
Ogata, D., 331N
Oidiopsis sp., on *Asclepias curassavica,* in Italy, 923N
Okori, P., 854
Olive
—broomrape, 814N
—*Nectria haematococca,* in Argentina, 326N
—nematodes, population density in Spain, 1075
Oliveira, C. M., 945
Olson, M. E., 633
O'Mara, J. K., 143
Oncometopia nigricans, Xylella fastidiosa vector, on citrus, 1237
O'Neill, N. R., 1247, 1290
Onesto, J.-P., 72N
Onion
—*Botrytis porri* on seed of, 1178N
—Fusarium basal rot, vegetative compatibility groups, Colorado, 606
—*Iris yellow spot virus,* in Colorado, 560N
—*Pantoea ananatis* on seed, center rot caused by, 106
—rice root-knot nematode on, growth and yield effect, 1339
—Xanthomonas leaf blight, in California, 330N
Opeña, R. T., 127
Ophiosphaerella agrostis, on bent grass:
—dead spot, pseudothecia, and ascospores, 1290
—distribution and cultivars, 1253
Opuntia spp., necrosis, pathogens in South Africa, 693N
Orchid, in Costa Rica, first report, 1402N
Ornamentals
—brown root rot, *Phellinus noxius,* in Taiwan, 820
—greenhouse, *Pythium* spp., Pennsylvania, 1227
Orobanche aegyptiaca, on olive, 814N
Oryza spp. (see also Rice)
—sheath blight, resistance, 808
Osterbauer, N., 441N
Ostrinia nubilalis, on corn
—deoxynivalenol content role, 1123
—injury and stock rot, Bt hybrids, 1149
Ostry, M. E., 462
Ouassou, A., 383

Ozkan, E., 26
Ozturk, S., 697N

Pallás, V., 1405N
Palm Hernández, M. E., 75N
Palm, M. E., 1194
Pane, A., 327N, 1175N, 1176N
Pantoea spp.
—*P. ananatis,* on onion, center rot caused by, 106
—*P. stewartii,* on corn, strain differentiation, 304, *433*
Papaya ringspot virus, on papaya
—disease progress, cover photo, February
—virus coat protein, control in Hawaii, 101
Paplomatas, E. J., 1176N
Pappu, H. R., 939
Paraphlepsius spp., peach yellow leaf roll disease vector, 759
Parrella, G., 1052N
Parthenium hysterophorus, rust, in Africa, 327N
Pashenova, N. V., 418
Paspalum vaginatum, take-all, first report in USA, 1405N
Pataky, J. K., 167, 1031
Pataky, N., 443N
Patte, C., 1109
Paulitz, T. C., 442N, 470
Pavlou, G. C., 379
Paxson, L. K., 1271N
Payton, M. E., 753
Pea
—pink seed, first report in USA, 188N
—*Rhizoctonia oryzae,* 442N
—root rot, *Fusarium* and *Aphanomyces* relation, 411
Peach
—brown rot, inoculum production, temperature, and wetting period, 666
—constriction canker, fungicide factors, 721
—*Hop stunt viroid* and *Peach latent mosaic viroid,* 329N
—yellow leaf roll, phytoplasma taxa and insect vectors, 759
Peach latent mosaic viroid, on peach, in Uruguay, 1405N
Peacock, W., 75N
Peanut
—aflatoxin and compatibility groups, 215
— *Aspergillus flavus* on peanut, vegetative compatibility groups, DNA fingerprinting, 254
—late leaf spot, fungicides for management, 349
—Sclerotinia blight: acibenzolar-*S*-methyl and fluazinam effect, 1315; outbreaks and fungicides, algorithms, 118
—*Tobacco streak virus,* in India, 173
—*Tomato spotted wilt virus,* genotype response, 939
Peanut stunt virus, in Florida and Georgia, 326N
Pear
—gray mold and blue mold, yeasts antagonist to, 848
—yeasts, fruit involvement, 625
Pecan, *Meloidogyne partityla,* in Georgia, 441N
Pedersen, W. L., 26, 741, 971, 1036, 1223
Peeral, R., 1049N
Peltaster fructicola, on apple, sooty blotch complex, chemical treatment, 1325
Pelter, G. Q., 1178N
Pena, M., 74N
Penicillium spp.
—*P. digitatum,* chlorine effect on spores, 509
Pennisetum glaucum
—bacterial stripe, in Georgia, 326N
—nematode and leaf blight, resistance, 909
—stalk rot, associated fungi, 833
Pennisi, A. M., 561N, 1175N
Pentas lanceolata, Sclerotium rolfsii on, in Taiwan, 1275N
Pepper mottle virus
—on chili pepper, in New Mexico, 603
—on tomato, 186N
Peral, R., 1050N
Pereira, E. O., 1206
Peres, N. A. R., 620
Pérez, B. A., 326N
Pernezny, K., 151
Peronospora spp.
—*P. digitalidis,* on foxglove, in California, 1176N
—*P. farinosa,* on quinoa, in Denmark, 1175N
—*P. sparsa:* on *Prunus laurocerasus,* in Belgium, 563N; on rose, detection and management, 1363
Perry, K. L., 1219
Pestalotiopsis funerea, on *Cupressocyparis leylandii,* in Italy, 1402N
Peters, R. D., 411
Peterschmitt, M., 1404N
Petersen, G., 528, 1271N
Petersen, M. A., 1109
Peterson, P. D., 1094
Pethybridge, S. J., 661
Peyser, B., 1109
Phaseolus spp.
—*P. lunatus:* downy mildew, races in Delaware, 813N; *Phytophthora capsici* on, in mid-Atlantic region, 1049N
—*P. vulgaris:* anthracnose, race 73 in North Dakota, 562N; anthracnose, resistance and gene pools, 1383; bacterial wilt, in western Canada, 1275N; *Calopogonium golden mosaic virus,* in Costa Rica, 188N; pink seed, 921N; soilborne disease, new in Nebraska, 1051N; *Tomato yellow leaf curl virus,* in Cuba, 814N; *Tomato yellow leaf curl virus,* resistance screening, 429
Phellinus noxius, on fruits and ornamentals, in Taiwan, 820
Phene, C. J., 1211
Phialophora gregata, on soybean, genotypes A and B, characterization, 729
Phipps, P. M., 118
Phlyctema vagabunda, on ash
—cover photo, April
—in Michigan, 442N
Phoenix canariensis, lethal decline, phytoplasma, in Texas, 676
Phoma spp.
—*P. exigua,* on *Centaurea solstitialis,* in Russia, 922N
—*P. sclerotioides,* on alfalfa, detection using PCR-based SCAR markers, 928
—*P. strasseri,* on *Stachys officinalis,* in Bulgaria,
Phoradendron breedlovei, on oak, in Honduras, 440N
Physostegia virginiana, Alfalfa mosaic virus, 72N
Phytophthora spp.: on citrus, gummosis and fungicide effect, 687; on pine seedlings, in Spain, 563N; on raspberry, root rot in Chile, 1357
—*P. cactorum:* on horse chestnut, cover photo, June; on horse chestnut, in Turkey, 697N; on *Prunus* sp., in Belgium, 563N; on strawberry, in Spain, 1051N
—*P. capsici:* on cucumber and melon, in Spain, 558N; on lima bean, in mid-Atlantic region, 1049N; on pepper, acibenzolar-*S*-methyl for, 292; on pothos, new host, 1050N; on pothos, rot, cover photo, September
—*P. cinnamomi:* on *Pinus occidentalis,* in Dominican Republic, 1275N; on *Quercus laurifolia,* 441N
—*P. cryptogea:* on sage, in Italy, 1176N; on walnut, in Italy, 328N
—*P. erythroseptica,* on potato, metalaxyl effect, 797
—*P. fragariae,* on strawberry and raspberry, soil solarization, 645
—*P. infestans:* detection, sample size and DNA extraction methods, 247; oospore formation, on tubers in Mexico, 73N on potato tuber, harvest time effect, 264; on potato tubers, volatile fingerprinting for detection, 131
—*P. nicotianae,* on tobacco, cultivar and metalaxyl resistance, 362
—*P. palmivora:* on *Coronilla valentina,* in Italy, 327N; on lavender, in Italy, 561N
—*P. parasitica:* on tobacco, resistance gene pH, 1080; on tobacco, resistance selection, marker-assisted, 1303
—*P. phaseoli,* on lima bean, races in Delaware, 813N
—*P. quercina,* on oak, in Asia, 442N
—*P. ramorum:* on coast redwood, in California, 1274N; on Douglas-fir, in California, 1274N; on oak, in Oregon, 441N; on *Quercus agrifolia,* bleeding canker, cover photo, March; on *Quercus* and *Lithocarpus* spp., in California, 205; on *Rhododendron,* in Spain, 1052N
—*P. syringae,* on apple, cold storage, 693N
Phytoplasma
—aster yellows subgroup, on chayote in Costa Rica, 330N
—on avocado, in Spain, 692N
—corn stunt spiroplasma, growth and nutrition, 945
—on *Epilobium hirsutum,* group 16SrI, Estonia, 1177N
—Erigeron witches-broom, ash yellows group, in Brazil, 1142
—maize bushy stunt, growth and nutrition, 945
—peach yellow leaf roll disease, identification, 759
—on *Phoenix canariensis,* lethal decline in Texas, 676
—solanaceous plants in Lebanon, 697N
—on watercress, in Hawaii, 331N
—witches'-broom on almond, epidemic in Lebanon, 477
Phytosanitary standards, model for risk reduction measures, 552
Picea sp.: *Ceratocystis* spp., host specialization, 418
—*P. pungens:* rust, in Wisconsin, 1051N; *Stigmina lautii,* on spruce, first report in USA, 699N
Pierce, L. E., 692N
Pigeon pea sterility mosaic virus, mite transmission, 1297
Pine
—Phytophthora root rot, in Spain, 563N
—root and butt rot, simultaneous infection of *Heterobasidion* spp., 814N
Pineapple mealybug wilt associated virus-1, *Rotylenchus reniformis* interaction, 933
Pineapple mealybug wilt associated virus-2, on pineapple
—cover photo, August
—in Hawaii, yield, 867
Piñeyro, M. J., 695N
Pinkerton, J. N., 645
Pinus spp.
—*P. caribaea,* dwarf mistletoe, in Hondurus, 815N
—*P. occidentalis,* littleleaf disease, in Dominican Republic, 1275N
—*P. taeda,* stunting by *Longidorus* sp., in Georgia, 803

Pioli, R. N., 1403N
Pisi, A., 444N
Pistachio
—*Botryosphaeria dothidea* on, latent infection in buds, 282
—*Fusicoccum* sp. on, identification technique, PCR-based, 515
Pistacia vera, shoot blight, in California, 1273N
Pitcairn, M. J., 814N
Pittman, R. N., 326N
Pitz, K. Y.,
Plasmopara halstedii
—on marshelder and sunflower, cross-infectivity, 919N
—on sunflower, races in Spain, virulence, 736
Plectosporium tabacinum, on pumpkin, management, cover crop and fungicides, 1134
Ploeg, A. T., 505
Plum, bark necrosis-stem pitting disease, *Closterovirus* association, 415
Plum pox virus
—surveillance program, hierarchical sampling in USA, 259
Podolsky, R., 535
Podosphaera spp.: on cucurbits, control with biofungicides and chemical fungicides, detached leaf culture, 915; on pumpkin, management, yield, 1134
—*P. fusca,* on *Euryops pectinatus,* in Italy, 920N
Polargonium zonate spot virus, on tomato, in France, 1052N
Polizzi, G., 815N, 1403N
Polston, J. E., 73N, 1109
Polygala myrtifolia, Cucumber mosaic virus, new host, 1403N
Polymyxa betae, on sugar beet, in Washington and Oregon, 72N
Pooler, M. R., 880
Populus, bronze leaf disease, etiology, 462
Porchas, M., 292, 687
Porras, M., 1049N, 1051N
Postharvest diseases, *Nattrassia mangiferae* on white yam, Nigeria, 919N
Postharvest pathology
—biocontrol with *Aureobasidium pullulans,* 54
—cranberry fruit rot complex, calcium salt effect, 747
—potato tuber diseases, volatile fingerprinting for detection, 131
—Rhizopus soft rot on sweetpotato, duration effect, 345
Potato
—black dot, in Italy, 562N
—blackleg, stolon and tuber tissue infection, Canada, 960
—diseases, volatile fingerprinting for detection, 131
—early dying, management and environment, 1184
—late blight: detection by PCR and methods, 247; management in Mexico, SimCast validation and field resistance, 1163; tuber susceptibility and time of harvest, 264
—*Phytophthora infestans* oospores on tubers, in Mexico, 73N
—powdery scab, in Costa Rica, 1273N
—*Ralstonia solanacearum* race 3, biovar 2, from geranium, 987
—silver scurf: antagonist microorganisms, 717; organic and inorganic salt effect, 1014
—stem rot, irrigation system comparison, metam sodium, 1211
—*Tobacco mosaic virus*, symptoms in Korea, 112
Potato leafroll virus
—new hosts, 561N
—on *Solanum sarrachoides,* host, 559N
Potato virus Y, necrotic strain, northwestern USA, 1177N
Potter, J. L., 814N
Pourrahim, R., 187N, 561N
Powell, C. A., 458
Powell, M. R., 552
Powelson, M. L., 1184
Poysa, V., 971
Prasada Rao, R. D. V. J., 173
Pratt, P. D., 813N
Pratylenchus spp., on olive, population density in Spain, 1075
Preisig, O., 20
Pretorius, Z. A., 485, 922N
Pria, W. D., Jr., 1206
Pritts, M. P., 922N
Prunus spp., bacterial canker, rootstock and budding height effect, 543
—*P. laurocerasus, Phytophthora* and *Peronospora* spp. on, in Belgium, 563N
Prunus necrotic ringspot virus, on hops, 661
Pryor, B. M., 1115
Pseudomonas spp.
—*P. avellanae* on European hazelnut, cover photo, July; on hazelnut, canker and decline, 704
—*P. cichorii,* on muskmelon and watermelon, wilt and stem rot, 443N
—*P. corrugata,* on tomato, in Mexico, 563N, *924*
—*P. marginalis,* on broccoli, glucosinolate effect, 629
—*P. syringae:* on broccoli, new pathovar, 992; on collards and turnips, in Ohio, 186N; on crucifers, inoculum detection and survival, in Oklahoma, 883; on prune, rootstock and budding height effect, 543; on spinach, in California, 921N
Pseudotsuga menziesii, Phytophthora ramorum on, in California, 1274N
Psidium guajava, Glomerella cingulata, in Argentina, 440N
Puccinia spp.
—*P. abrupta,* on *Parthenium hysterophorus,* in Africa, 327N
—*P. canaliculata,* on sunflower, 559N
—*P. carduorum,* rust, in California and Nevada, 814N
—*P. coronata,* on oat, resistant lines, 593
—*P. graminis:* on wheat, races during 1997-1998, 568; on wheat, resistance genes in South Africa, 922N
—*P. hemerocallidis,* on daylily: new disease in Americas, 1192; cover photo, November
—*P. polysora,* on corn, in Argentina, 187N
—*P. punctiformis,* on *Silybum marianum,* first report, 1271N
—*P. striiformis:* on wheat, epidemics in USA in 2000, 39; on wheat, epidemiology in South Africa, 485; on wheat, races in Syria and Lebanon, 499
—*P. thlaspeos,* on dyer's woad, biocontrol, epidemiology, 241
—*P. triticina:* on wheat, physiologic specialization in USA in 2000, 981; on wheat, virulence in USA in 1999, 15; on wheat, virulence phenotypes in South Atlantic states, 288
—*P. vincae,* on *Vinca* spp., in California, 75N
—*P. xanthii,* on sunflower, first report in North America, 564N
Pucciniastrum vaccinii, on blueberry, in Spain, 1178N
Pujol, M., 1049N, 1050N
Pumpkin, powdery mildew, Plectosporium blight, black rot, fungicide and cover crop effect, 1134
Purcell, A. H., 1056
Purcifull, D. E., 1109
Pusey, P. L., 639
Putnam, M. L., 442N
Pycnostysanus azaleae, on rhododendron, in Italy, 560N
Pyrenophora tritici-repentis, new race, Brazil, 1050N
Pyricularia grisea
—on pearl millet, resistance, 909
—on ryegrass: in California, 75N; fungicides, resistance, 235
Pythium, group G, on kenaf in South Africa, 698N
Pythium spp.: on apple roots, metalaxyl sensitivity, 669; F-group, on celery in South Africa, 441N; greenhouse floral crops, Pennsylvania, 1227; on lettuce, hydroponics, South Africa, 1175N
—*P. irregulare,* on ornamentals, in California, 692N
—*P. ultimum:* on potato, metalaxyl effect, 797; on potato tubers, volatile fingerprinting for detection, 131

Qin, X-Y., 74N
Quercus spp.: *Phytophthora quercina* in Asia, 442N; root rot, in Spain, 693N
—*Q. laurifolia, Phytophthora cinnamomi,* first report, 441N
—*Q. salicifolia,* mistletoe, in Honduras,440N
—*Q. virginiana,* twig canker, in Florida, 442N
Quiñones, M., 73N, 814N

Rachdawong, S., 652
Raid, R. N., 151
Rajcan, I., 971
Ralstonia solanacearum, race 3, biovar 2, on geranium and potato, 987
Ramallo, J. C., 187N
Ramírez, P., 188N
Ramos, P. L., 1049N, 1050N
Rana, S. S., 1404N
Rapoport, H. F., 1075
Raspberry (see also *Rubus*), soilborne pathogens, soil solarization, 645
Raudino, F., 327N, 1175N, 1176N
Ravenea rivularis, leaf spot and blight, outbreak in Italy, 815N
Ravololonandrianina, J., 1404N
Rayachhetry, M. B., 813N
Rbeiz, N., 499
Reddy, A. S., 173
Reddy, D. V. R., 173, 1297
Reddy, M. N., 920N
Reddy, S. V., 173
Reddy, Y. V. R., 65
Reeser, P. W., 645
Reganold, J. P., 669
Reid, C. L., 162, *690*
Reid, D. M., 633
Reid, L. M., 327N
Reid, T. C., 493
Reilly, C. C., 441N
Reina, A., 329N, 1403N
Resende, R. O., 1142
Resistance
—aminobutyic acid-induced, plant pathogens, 448, *691*
—apple to fire blight, acibenzolar-*S*-methyl for induction, 785
—*Cersis* taxa to *Botryosphaeria ribis,* 880
—*Citrullus* sp. to *Acidovorax avenae,* 61
—muskmelon to *Fusarium oxysporum,* race 1,2, 897
—oat to crown rust, 593
—pearl millet to *Meloidogyne* and *Pyricularia grisea,* 909
—pepper to *Tomato spotted wilt virus,* in Italy, 950

—*Phaseolus vulgaris* to anthracnose, gene pools, 1383
—*Phytophthora nicotianae* to metalaxyl, 362
—potato to late blight, in Toluca Valley, Mexico, 1163
—rice to *Curvularia tuberculata,* mechanisms, 470
—rice to sheath blight, *Oryza* spp., 808
—soybean to Sclerotinia stem rot, plant introductions, 971
—spinach to white rust, surfactant effect, 791
—tobacco to black shank, 1080
—tomato to root-knot nematode, in Tanzania, 127
—tomato to *Tomato yellow leaf curl virus* and *Tomato curly stunt virus,* 528
—wheat to eyespot, Cephalosporium stripe, and wheat streak mosaic, 1043
Reviewers, acknowledgment, 76
Reynaud, B., 1404N
Rhizobacteria, on wheat, yield response, 780
Rhizoctonia spp.
—*R. crocorum,* on alfalfa, in Iran, 693N
—*R. oryzae,* on pea, 442N
—*R. solani:* on canola, yield loss, 1005; on periwinkle, in Louisiana, 1272N; on Madagascar periwinkle, cover photo, November; on poinsettia, biocontrol with *Burkholderia cepacia* and binucleate *Rhizoctonia*, 47; on *Salvinia* spp., in Florida 813N; on soybean, herbicide effect, glyphosate tolerance, 1369; sheath blight resistance in *Oryza* spp., 808
Rhizopus stolonifer
—on grape, outbreak in Chile, 815N
—on sweetpotato, postharvest storage, 345
Rhodes, L. H., 269
Rhododendron sp.
—*Phytophthora ramorum,* in Spain, 1052N
—*Pycnostysanus azaleae,* in Italy, 560N
Rhodotorula glutinis, on pear fruit, 625
Rhynchosia golden mosaic virus, on tobacco, in Mexico, 692N
Rhynchosia mosaic virus, on *Cajanus cajan* in Puerto Rico, characterization, 558N
Ribes, Blackcurrant reversion virus, PCR detection, 1333
Rice (see also *Oryza* spp.)
—*Curvularia* spp. on, cultivar reaction, 470
—tungro, epidemiology and management, Asia, 88
Riedel, K.-H., 20
Ristaino, J. B., 247
Rivera, C., 330N, 1273N, 1402N
Rivera, V., 797
Rivera-Bustamante, F. R., 692N
Rivera-Bustamante, R., 1049N
Rivero V., G. M., 328N
Rizzo, D. M., 205, 1274N
Roberts, I., 173
Roberts, J. J., 568
Roberts, P. D., 188N
Robison, D. M., 721
Rodrigues, J. C. V., 564N
Rodríguez, C. M., 564N, 1402N
Rodríguez-Alvarado, G., 563N, 603, *924*
Roenhorst, J. W., 186N
Roggero, P., 950
Romero Montes, G., 1163
Romero, F., 1049N, 1051N, 1178N
Ronco, B., 440N
Rorippa nasturtium-aquaticum, Turnip mosaic virus, Venezuela, 697N
Rose, downy mildew, detection and management, 1363
Rosebrock, T. R., 73N
Rosellinia necatrix, on camellia, in Spain, 813N
Rosskopf, E. N., 1310
Rossman, A. Y., 442N, 922N
Rotylenchus reniformis, on pineapple, interaction with *Pineapple mealybug wilt associated virus*-1, 933
Rowe, R. C., 1184
Rowhani, A., 415
Rubies-Autonell, C., 444N
Rubio Covarrubias, O. A., 1163
Rubio, L., 698N
Rubus idaeus (see also Raspberry)
—*Phytophthora* spp. on, distribution in Chile, 1357
Rufty, R. C., 1303
Rumex crispus, anthracnose, 1271N
Rundell, P. A., 458
Rupestris stem pitting associated virus, in Argentina, in California, 921N
Rush, C. M., 901
Russo, J. M., 4
Rutger, J. N., 808
Ryegrass, *Pyricularia grisea,* fungicides for, resistance to, 235

Saddiqui, M. K., 328N
Sage, root and crown rot, in Italy, 1176N
Sahin, F., 156
Salar, P., 697N
Salas, B., 797
Salinero, M. C., 813N
Salvinia spp., *Rhizoctonia solani,* in Florida, 813N
Sams, C. E., 629
Sánchez, M. E., 563N, 693N
Sanden, B. L., 1211
Sanders, F. H., Jr., 106
Sanders, H., 326N
Sangoyomi, T. E., 919N
Sanguisorba minor, powdery mildew, symptoms, cover photo, October
Santiago, R., 696N
Satyanarayana, T., 173
Saunders, B., 188N
Sayler, R. J., 543
Schaafsma, A. W., 327N, 611, 1123
Schaffert, R. E., 945
Schena, L., 54
Schisler, D. A., 1350
Schizanthus sp., *Sclerotinia sclerotiorum.* in Italy, 71N
Schizothyrium pomi, on apple, postharvest removal by chemicals, 1325
Scholler, M., 327N
Schroeder, B. K., 188N
Schwartz, H. F., 560N, 606
Sciumbato, G., 1179N
Sclerotinia spp.
—*S. homoeocarpa:* on turfgrass, compost effect, 405; on turfgrass, propiconazole for control, 1240
—*S. minor:* on carrot, first report in Ontario, Canada, 1406N; on peanut, acibenzolar-*S*-methyl and fluazinam effect, 1315; on peanut, outbreaks and fungicides, algorithms, 118; on sunflower, in Spain, 697N
—*S. sclerotiorum:* on buckwheat, in India, 1404N; on *Campanula carpatica* and *Schizanthus* sp., in Italy, 71N; on soybean, biocontrol with *Sporidesmium,* 999; on soybean, fungicide efficacy, 26; on soybean, partial resistance, plant introductiosn, 971
Sclerotium rolfsii
—on potato, metam sodium treatment, irrigation systems, 1211
—on star-cluster, in Taiwan, 1275N
Scortichini, M., 704
Se, T., 1405N
Seal, S., 187N
Sechium edule, phytoplasma, in Costa Rica, 330N
Secor, G. A., 797
Seem, R. C., 4
Seifers, D. L., 138
Septoria citri, on bergamot, first report, 71N
Septoria limonum, on bergamot fruit, spot, cover photo, January
Sequoia sempervirens, Phytophthora ramorum, in California, 1274N
Serra, J., 698N
Sestili, S., 897
Sether, D. M., 867, 933
Shahraeen, N., 187N, 561N, 694N
Shalev, Z., 965
Sherwood, T., 73N
Shetty, K. G., 889
Shew, B. B., 1315
Shew, H. D., 1080
Shiel, P. J., 1177N
Shishkoff, N., 915
Shlevin, E., 186N
Shoemaker, P. J., 73N
Shtienberg, D., 186N
Silybum marianum, rust, first report, 1271N
Simao-Beaunoir, A.-M., 717
Singh, B. P., 328N
Sipes, B. S., 933
Sirococcus clavigignenti-juglandacearum, on butternut, beetle vectors, 521
Sissoko, I., 1374
Slaughter, G. W., 205
Slininger, P. J., 1350
Smilanick, J. L., 509
Smith, B. A., 326N
Smith, G. S., 1101
Smith, J. A., 192, 462
Smith, M. F., 528
Smither-Kopperl, M. L., 1177N
Sobh, H., 477
Soil solarization, landscape pathogens, reduction in Florida, 1388
Solanum spp.
—*S. bahamense,* plant virus experimental host, 1310
—*S. sarrachoides, Potato leafroll virus* on, 559N
Solarization, soilborne pathogens in strawberry and raspberry, 645
Soltani, N., 1232
Somai, B. M., 710
Sood, P., 1404N
Sorenson, D., 509
Sorghum
—anthracnose, pattern analysis, 1374
—diseases in western Kenya, prevalence and severity, 65
—ergot, isolate comparisons worldwide, 1247
Soria, J., 1405N
Sorosporium provinciale, on big bluestem, cover photo, December
Southwick, S. M., 543
Souza, I. R. P., 945
Souza, N. L., 620
Soybean
—*Bean pod mottle virus:* in Canada, 330N; production threat, 1280
—brown stem rot, genotypes A and B, characterization, 729
—cyst nematode, race shift lack in field plots, 1101
—frogeye leaf spot, in Wisconsin, 1272N
—*Groundnut ringspot virus,* in South Africa, 1271N
—root rot and damping-off, herbicide effect, 1369
—Sclerotinia stem rot: biocontrol with *Sporidesmium,* 999; control with *Sporidesmium sclerotivorum,* cover photo, September; fungicide efficacy, 26; plant introductions and partial resistance, 971

—seed quality, herbicide effect, 1036
—stem canker, outbreak in Argentina, 1403N
—sudden death syndrome: in Delaware and Maryland, 696N; resistance and aeroponic chambers, 1223; resistance evaluation, 741
—viruses, aphid vectors, 1211
Soybean mosaic virus, aphid behavior, transmission efficiency, 1260
Spadaro, I., 815N
Sphaeropsis tumefaciens, on St. John's-wort, in Florida, 1177N
Sphaerotheca macularis, on strawberry, in Spain, 1049N
Spilocaea oleaginea, on olive leaf, cover photo, January
Spinach
—bacterial leaf spot, cover photo, September
—leaf spot, in California, 921N
—white rust: cover photo, July; surfactant effect on disease, 791; temperature and wetness effect, 753
Spongospora subterranea, on potato, in Costa Rica, 1273N
Sporidesmium sclerotivorum, biocontrol agent for Sclerotinia stem rot of soybean, 999
Spotts, R. A., 625, 693N
Sprenkel, R. K., 326N
Sreenivasulu, M., 920N
Stachys officinalis, Phoma strasseri, in Bulgaria,
Stange, R. R., 345
Stanosz, G. R., 1051N
Staten, R. T., 1011
Steadman, J. R., 971
Steimel, J., 418
Stenotaphrum secundatum, gray leaf spot, mating type alleles and fertility, 827
Stevenson, K. L, 349, 1240
Steventon, L. A., 854
Stienstra, W. C., 971
Stigmina lautii, on spruce, first report in USA, 699N
Stiles, C. M., 1405N
Stipes, R. J., 118
Stowell, L., 75N
Strandberg, J. O., 1115
Strawberry
—anthracnose: in Bulgaria, 1178N; in New York, 922N
—Botrytis fruit rot, fungicide timing, 1019
—*Colletotrichum* spp., soil survival, 965
—crown rot, in Spain, 1051N
—gray mold, *Ulocladium atrum* for control, 220
—phylloid fruit phytoplasma, new subgroup R, 920N; cover photo, November
—soilborne pathogens, soil solarization, 645
—*Sphaerotheca macularis,* in Spain, 1049N
Stromberg, E. L., 652
Stromberg, V. K., 652
Stuteville, D. L., 312, 1404N
Subbarao, K. V., 889
Subramaniam, K., 173
Sugar beet
—*Aphanomyces cochlioides* and root rot, spatial distribution in field, 547
—*Beet soil-borne virus,* in Iran, 187N
—charcoal rot, in Greece, 1051N
—cultivar evaluation, integrated approach, 192
—IPM model, 336
—rhizomania, in Washington and Oregon, 72N
—root diseases, irrigation and cultivar, 901
Sugarcane yellow leaf virus, in Ecuador, Guatemala, and Nicaragua, 74N
Sulc, R. M., 269
Sullivan, M. J., 753
Sunflower
—charcoal rot, in North and South Dakota, 923N
—downy mildew, races in Spain, 736
—*Plasmopara halstedii* on, from marshelder, 919N
—rust, 559N; first report in North America, 564N
—stem rot and wilt, in Spain, 697N
—white rust, first report in North America, 559N
Sutton, W., 441N
Swai, I. S., 127
Swart, L., 440N
Swart, W. J., 693N, 698N; 1199
Sweetpotato
—*Geotrichum candidum* in North Carolina and Louisiana, 695N
—Rhizopus soft rot, postharvest, factors, 345
Swift, C. E., 606
Swings, J., 20
Syagrus oleracea, anthracnose, in Brazil, 72N

Tainter, F. H , 441N, 442N
Takeda, F., 920N
Tamburic-Ilincic, L., 611
Tan, Z-X., 74N
Tapesia yallundae. on wheat, germ plasm lines resistant to, 1043
Tarnowski, C. G., 921N
Tavella, L., 950
Taylor, R. J., 797
Taylor, S. E., 179
Teasdale, J. R., 356, 955
Teixeira, D. C., 1206
Tello Marquina, J. C., 1402N
Tenuta, A. U., 330N, 327N
Tesfaendrias, M. T., 698N
Tessitori, M., 329N, 560N, 1403N
Thirumala-Devi, K., 173
Thomas, P. E., 561N
Thomas, S. H., 441N
Thompson, C. M., 61
Thomson, S. V., 241
Thornton, R. E., 1177N
Thresh, J. M., 187N
Tian, S. P., 848
Tidwell, T., 75N
Tilletia indica, Karnal bunt, detection by optical sorting, 1011
Timmer, L. W., 620
Timper, P., 909
Tipping, P., 813N
Tjosvold, S. A., 1176N
Tobacco
—black shank: cultivar and metalaxyl resistance, 362; resistance, marker-assisted, 1303; resistance gene pH, origin, 1080
—bushy top disease, in China, 74N
—cyst nematode, complex in Spain, 1402N
—*Rhynchosia golden mosaic virus,* in Mexico, 692N
Tobacco bushy top disease, in China, 74N
Tobacco leaf rugose virus, molecular characterization in Cuba, 1050N
Tobacco mosaic virus, on potato, symptoms in Korea, 112
Tobacco rattle virus, on potato, cover photo, May
Tobacco streak virus, on peanut, in India, 173
Todd, J. W., 939
Tomato
—bacterial canker, epidemiology in greenhouse, 535
—bacterial spot and anthracnose, compost amendments, 156
—begomovirus, identification in Madagascar, 1404N
—foliar diseases: factors in bed strategies, 356; fungicides and bed strategies, 955
—leaf mold, outbreak in Chile, 694N
—*Meloidogyne* spp., resistance in Tanzania, 127
—*Pepper mottle virus,* 186N
—pith necrosis, in Mexico, 563N, *924*
—*Polargonium zonate spot virus,* in France, 1052N
—root-knot nematode, marigold for control, 505
—yellowing disease, crinivirus association, in Greece, 1345
Tomato infectious chlorosis virus, first report in Spain, 596N
Tomato leaf curl virus, serological detection, 1109
Tomato mottle virus, serological detection, 1109
Tomato spotted wilt virus
—epidemiology, role of weeds and thrips, 573
—on peanut, genotype response, 939
—on pepper, hosts in Italy, resistance, 950
Tomato yellow leaf curl virus
—on bean, resistance screening, 429
—on beans, in Cuba, 814N
—in North Carolina, 73N
—on pepper, in Cuba, 73N
—*Tomato curly stunt virus* comparison, resistance in tomato, 528
Tooley, P. W., 1247
Trapero, A., 563N, 693N
Travis, J. W., 4
Trevors, J. T., 405
Trifolium ambiguum, Alfalfa mosaic virus, in Wisconsin, 695N
Tu, J. C., 330N
Tulip band breaking virus, in Japan, first report, 1405N
Turechek, W. W., 316, 922N
Turfgrass, dollar spot
—compost effect, 405
—propiconazole for control, 1240
Turnip mosaic virus, on watercress, in Venezuela, 697N
Tweddell, R. J., 717, 1014

Uddin, W., 75N, 827
Ulanovsky, S., 921N
Ulocladium atrum, on strawberry, biocontrol, 220
Uncinula necator, on grape, isolate sensitivity to azoxystrobin, 394
Uromyces striatus, on white sweetclover, in Kansas, 1404N
Urs, R. R., 188N
Ustilaginoidea virens, on corn, in Mississippi Delta, 1179N
Uyemoto, J. K., 415

Vaccinium corymbosum, leaf rust, in Spain, 1178N
Vaira, A. M., 696N
Vakalounakis, D. J., 379
Vakoch, D., 780
Valier, A., 599
Valiunas, D., 443N, 1177N
Valverde B., E., 328N
van de Kerckhove, G. A., 1177N
Van der Beek, J. G., 840
van Iersel, M. W., 278
van Jaarsveld, E., 362
van Niekerk, B. D., 485, 922N
Van, T. K., 813N
Vandemark, G. J., 928
Vannini, A., 328N
Varveri, C., 329N
Vasconcelos, C. A., 945
Vásquez, V., 1273N
Vega, J., 74N
Vegetables, root-knot nematode populations, in New York, 840
Venkata Subbaiah, K., 920N

Verdin, E., 697N
Verhoeven, J. Th. J., 186N
Verreet, J. A., 336
Verticillium spp.
—*V. albo-atrum,* on alfalfa, irrigation and cultivar effect, 588
—*V. dahliae:* on *Blighia sapida,* first report in USA, 74N; on potato, early dying management, environment, 1184; on potato, cover photo, November
—*V. longisporum, V. dahliae* compared to, evaluation technique, 854
Vetten, H. J., 329N
Vettorazzo, M., 1403N
Vettraino, A. M., 328N
Viertel, S. C., 815N
Vigna vexillata, zonate leaf spot, cause, 440N
Viji, G., 75N, 827
Villalobos, W., 330N, 564N
Vinca spp., rust, in California, 75N
Vincelli, P., 235
Vintal, H., 186N186N

Walcott, R. R., 106, 326N
Walgenbach, J. F., 573
Walker, N. R., 764
Walker, S. D., 696N
Walnut
—bacterial blight, copper spraying program, 583
—bacterial deep bark canker, in Europe, 696N
—brown apical necrosis, cover photo, June; etiology, 599
—*Phytophthora cryptogea,* in Italy, 328N
Wang, B., 225
Wang, R. Y., 1260
Wangsomboondee, T., 247
Ward, J. M. J., 859
Watermelon (see also Melon)
—bacterial fruit blotch, in Illinois, 443N
—*Didymella bryoniae* on, survival in vines in soil, 32
—Fusarium wilt, mycoparasite use in management, 1025
Watson, A. K., 470
Watson, W. A., 666
Wax, L. M., 1036
Webster, A.-M., 696N
Wehne, F. C., 1175N
Wehner, F. C., 441N
Welacky, T. W., 330N
Weldon, B., 1325
Weller, D. M., 780
Werner, N. A., 535
Wernsman, E. A., 1080, 1303
Werres, S., 1052N
Wheat
—*Barley yellow dwarf virus,* yield losses, 769
—deoxynivalenol content, weather factors, 611
—eyespot, stripe, and wheat streak resistance, germ plasm lines, 1043
—Fusarium head blight, biological control in greenhouse and field, 1350
—*High Plains virus,* transmission by mites, 138
—leaf rust: physiologic specialization in USA in 2000, 981; virulence in USA in 1999, 15; virulence phenotypes in South Atlantic states, 288
—powdery mildew, pathotypes in Morocco, 383
—rhizobacteria and yield response, seed treatment, 780
—stem rust: races during 1997-1998, 568; resistance genes in South Africa, 922N
—stripe rust: epidemic in South Africa, 485; epidemics in USA in 2000, 39; races in Syria and Lebanon, 499
—take-all: inoculum placement effect, 298; PCR identification, 652
—tan spot, new race from Brazil, 1050N
—*Tilletia indica,* seed infection detection, optical sorting, 1011
Wheat streak mosaic virus
—resistance to, 1043
—wheat curl mite relation, resistance, 423
White, D. G., 167, 1031
Wichman, R. L., 875
Wick, R. L., 1050N
Wickliffe, E. R, 606
Wicklow, D. T., 254
Widmer, T., 922N
Wilcox, W. F., 394, 1357
Willemen, T. M., 186N
Williams, W. P., 232
Williamson, L., 987
Williamson, S. M., 1089
Wilson, A. D., 1067
Wilson, C. R., 661
Wilson, J. P., 326N, 833, 909
Wilson, R. G., 192
Windels, C. E., 547
Windham, G. L., 232
Windom, G. E., 645
Wingfield, M. J., 20, 362
Wintermantel, W. M., 72N
Woldemariam, T., 327N
Wolf, P. F. J., 336
Wolff, M. F., 1080, 1303
Womack, M., 676
Wong, F. P., 394
Wood, A. K., 441N, 442N
Wood, A. R., 327N
Wood, B. W., 441N
Wood, T. F., 74N
Woods, D. L., 1005
Woods, D. M., 814N
Worlock, P. A., 921N
Wrather, J. A., 1101
Wright, S., 186N
Wu, J-Y., 74N

Xanthomonas spp.
—*X. axonopodis:* on *Agapanthus,* in Florida, 562N; on tomato and pepper, bacterial spot severity, ammonium lignosulfate and potassium phosphate applications, 1232
—*X. campestris:* on blueberry, in Florida, 188N; on crucifers, inoculum detection and survival, in Oklahoma, 883; on lettuce, seed treatments, 151; on onion, in California, 330N; on walnut, copper spraying program, 583
—*X. vesicatoria,* on tomato, organic amendments, 156
Xu, Y., 848
Xylella fastidiosa
—biofilm formation by, characterization, 633
—on citrus, sharpshooter leafhopper vector, 1237
—on grape: citrus and coffee strain comparison, 1206; leaf symptom, cover photo, October; other emergent diseases, 1056
—pathogenic group differentiation, protein profiles, 875

Yaege, J. R., 312
Yaganza, E. S., 1014
Yahyaoui, A. H., 499
Yamamura, K., 367
Yan, W., 1396
Yang, X. B., 999, 1369
Yanke, L. J., 921N, 1275N
Yao, J. C., 1275N
Yasem de Romero, M., 187N
Yeager, J. T., 543
Yerkes, L., 328N
Ykema, R. E., 1011
Yohalem, D. S., 682
Yonts, C. D., 192
Youssef El-Banna, A., 780
Yuen, J. M. F., 562N
Yun, W. S., 112

Zabalgogeazcoa, I., 1272N
Zafar, Y., 444N
Zantedeschia aethiopica, bacterial soft rot, in Taiwan, 1273N
Zee, F., 101
Zehr, E. I., 666
Zeller, K. A., 373
Zhang, H., 764, 780
Zhang, Y., 304 (Germany), *433*
Zhang, Y.-P. (California), 415
Zhao, Y. F., 883
Zhou, C.-H., 1206
Zhu, X., 327N
Zitko, S. E., 620
Zveibil, A., 1178N